

# Chapter 2 Part 1: Graphing Linear Equations

Unit Title: Futurama

Unit Question: Where am I Going?

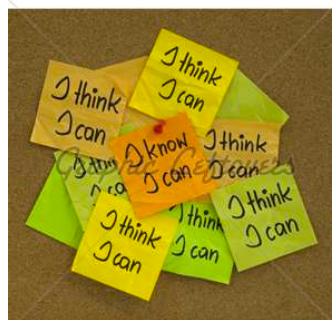
Learner Profile: Reflective

Area of Interaction:  
Health & Social Education



# I Can Statement:

I can graph proportional relationships and interpret the unit rate as the slope.



# Vocabulary

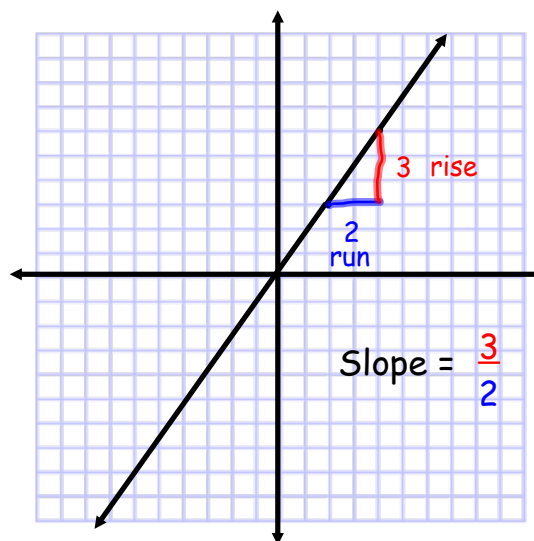
Slope

Rise

Run

# Slope is ?

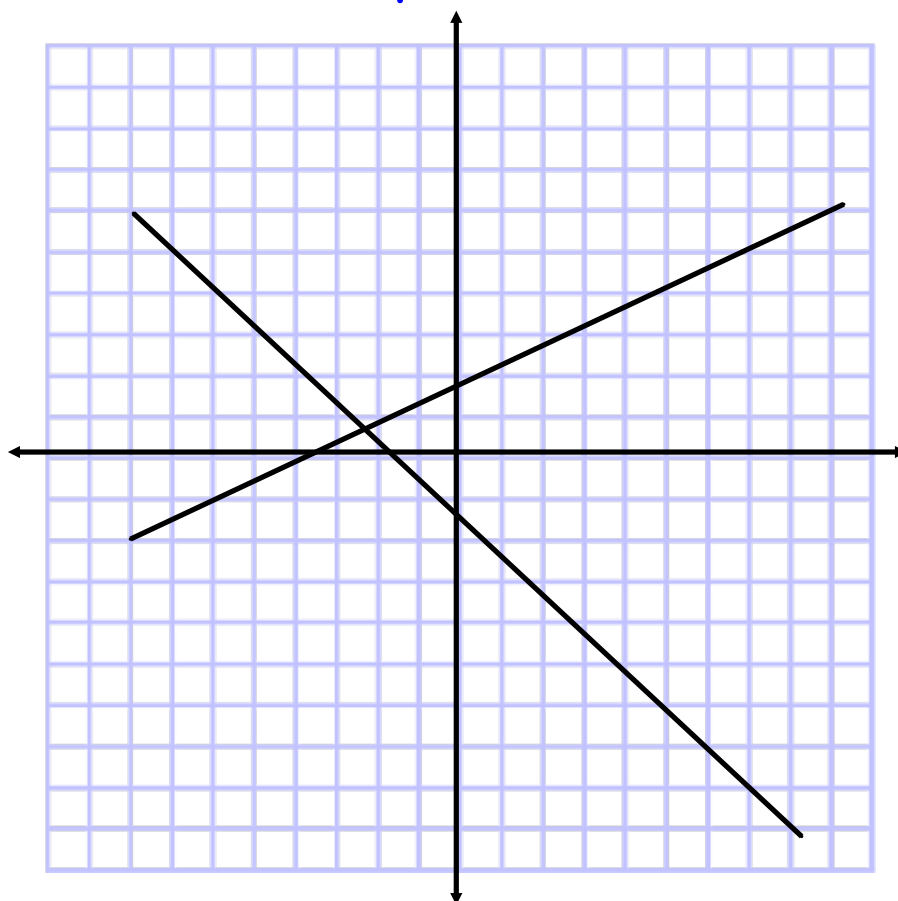
The rate of change between any two points on a line. It is the measure of the steepness of the line.



To find the slope of a line, find the ratio of the change of y (vertical change) to the change in x (horizontal change).

$$\text{Slope} = \frac{\text{change in } y}{\text{change in } x} = \frac{\text{Rise}}{\text{Run}}$$

Find the slope of the line?

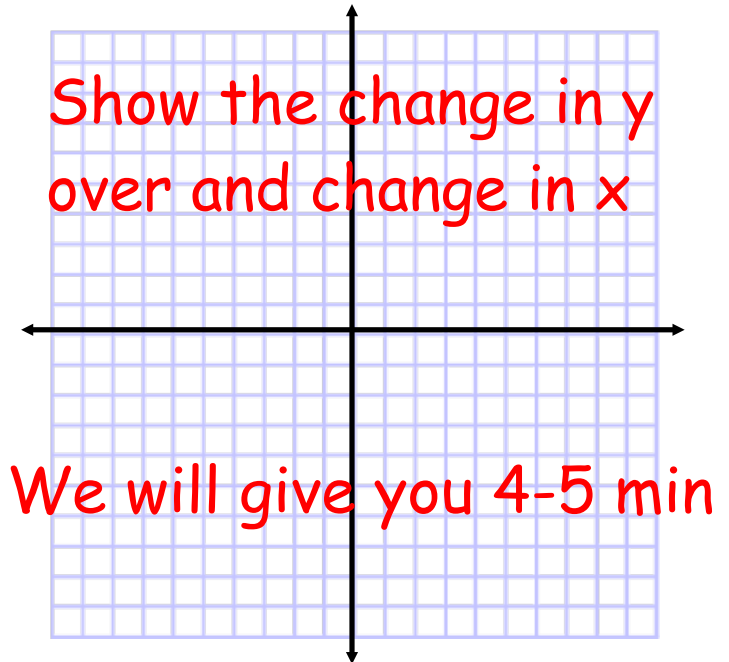


## Activity 1: Finding the Slope of a Line

Work with a partner. Find the slope of each line using two methods

Method 1: Use the two black points

Method 2: Use the two gray points

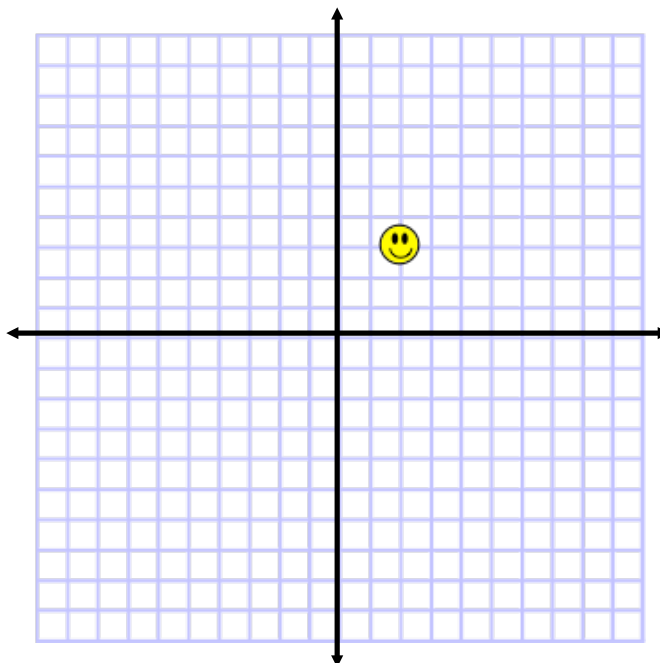


## Activity 2 Drawing Lines with Given Slopes

Slope = 3

Work with a partner.

Now, draw a line through the given point and given slope.



We will review in about 6 min



## Activity 3: In Your Own Words

Work by yourself and finish Questions

#3 a & b, #4, #5

## Assignment:

Use what you learned about the slope of a line to complete

Workbook p29-31

Textbook p59 4-6

Due tomorrow at the beginning of class!!